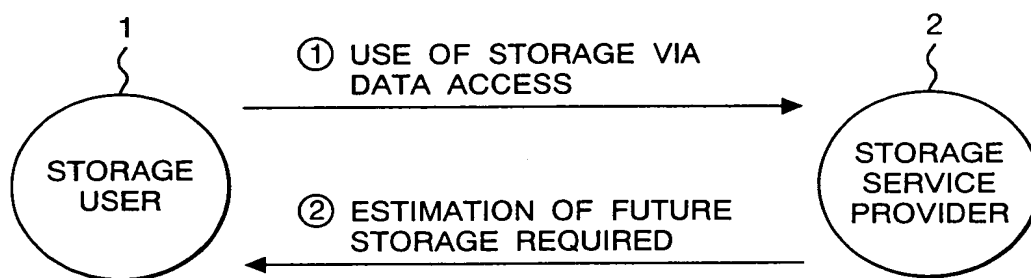


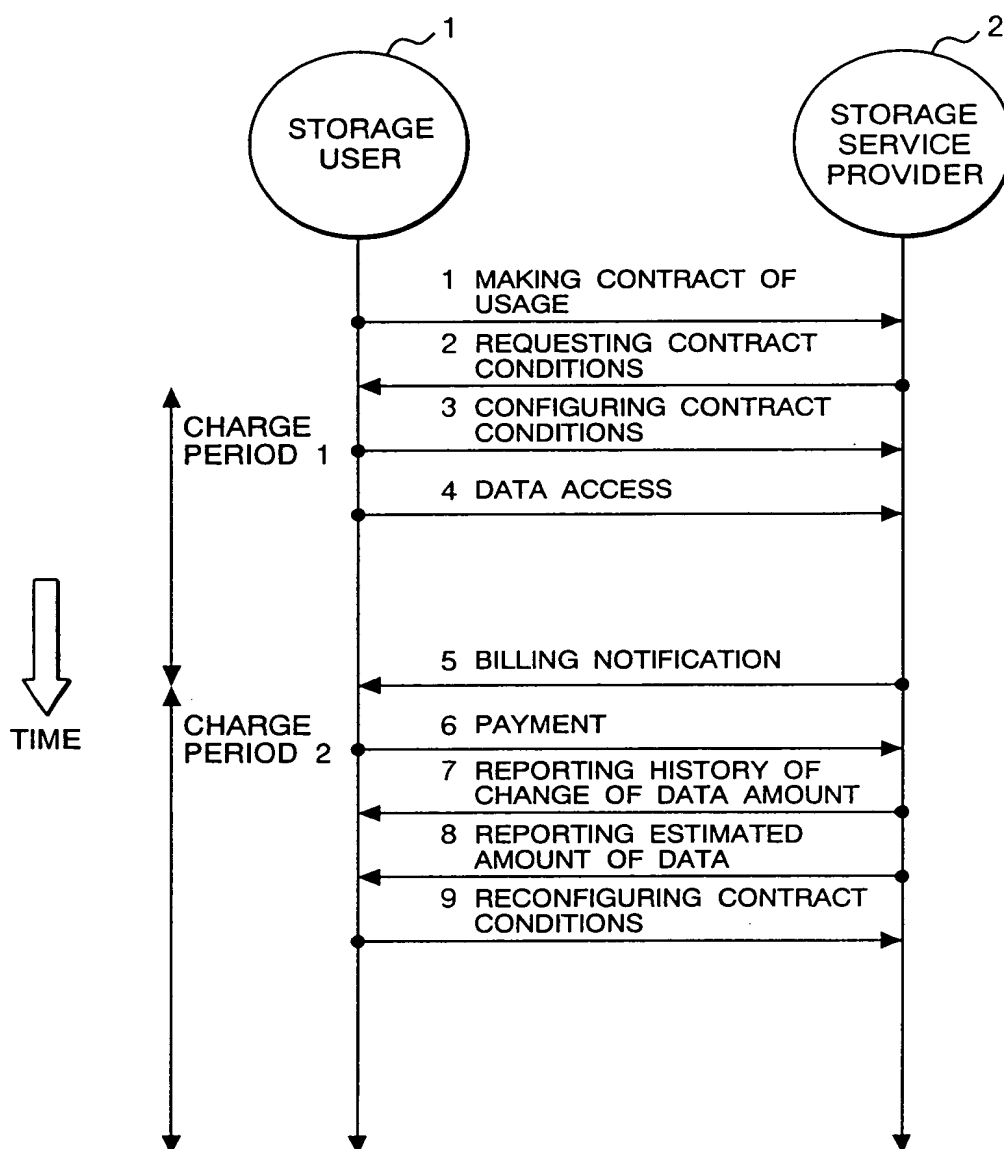
FIG. 1



00010000 00000000

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FIG. 2



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FIG. 3

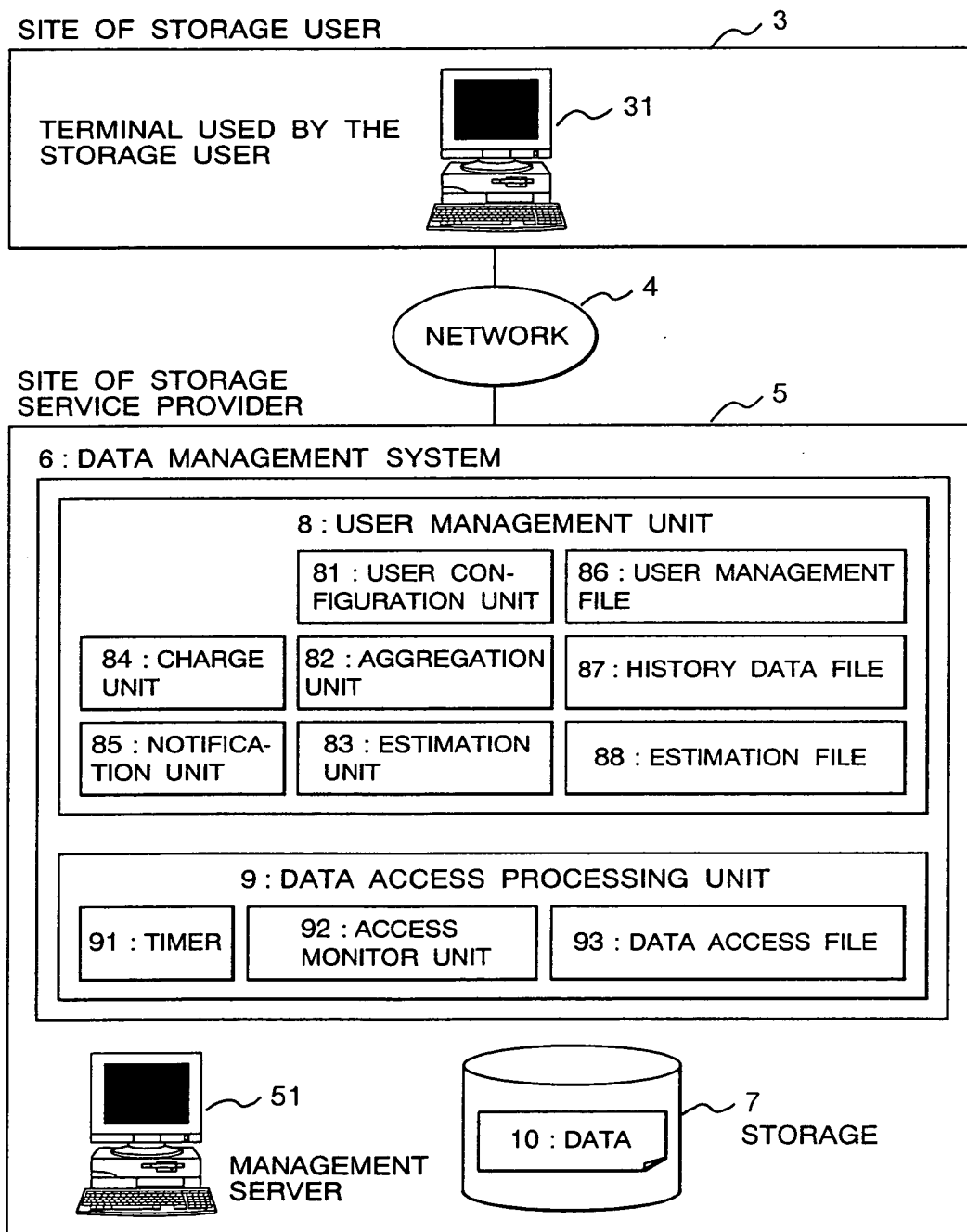


FIG. 3

FIG. 4

93 : DATA ACCESS FILE

STORAGE AREA	NAME OF DATA	AMOUNT OF DATA	ACCESS FREQUENCY	USER IDENQUENCY
1	1	300GB	100 TIMES	A
1	2	200GB	100 TIMES	B
1	3	200GB	100 TIMES	C
2	4	200GB	10TIMES	D
⋮	⋮	⋮	⋮	⋮

00010030 00001000

FIG. 5

86 : USER MANAGEMENT FILE

USER IDENTIFIER	BILLING METHOD	AMOUNT CON-TRACTED	ESTIMATION CONTRACT	BILLING PERIOD	AMOUNT TO BE REPORTED	AMOUNT ESTIMATED
A	FIXED	300GB	YES	MONTHLY	200GB	300GB
B	FIXED	200GB	NO	MONTHLY	200GB	500GB
C	SPECIFIC	30000 YEN	YES	MONTHLY	30000 YEN	30000 YEN
D	SPECIFIC	20000 YEN	NO	WEEKLY	10000 YEN	10000 YEN
⋮	⋮	⋮	⋮	⋮	⋮	⋮

TABLE 86: USER MANAGEMENT FILE

FIG. 6

87 : HISTORY DATA FILE

USER IDENTIFIER	DATA	STORAGE AREA	NAME OF DATA	AMOUNT OF DATA
A	2000/01/1	1	1	100GB
A	2000/01/2	1	1	100GB
A	2000/01/3	1	1	110GB
A	2000/01/4	1	1	115GB
:	:	:	:	:

2000/01/01 2000/01/02 2000/01/03 2000/01/04 2000/01/05 2000/01/06 2000/01/07 2000/01/08 2000/01/09 2000/01/10 2000/01/11 2000/01/12 2000/01/13 2000/01/14 2000/01/15 2000/01/16 2000/01/17 2000/01/18 2000/01/19 2000/01/20 2000/01/21 2000/01/22 2000/01/23 2000/01/24 2000/01/25 2000/01/26 2000/01/27 2000/01/28 2000/01/29 2000/01/30 2000/01/31 2000/02/01 2000/02/02 2000/02/03 2000/02/04 2000/02/05 2000/02/06 2000/02/07 2000/02/08 2000/02/09 2000/02/10 2000/02/11 2000/02/12 2000/02/13 2000/02/14 2000/02/15 2000/02/16 2000/02/17 2000/02/18 2000/02/19 2000/02/20 2000/02/21 2000/02/22 2000/02/23 2000/02/24 2000/02/25 2000/02/26 2000/02/27 2000/02/28 2000/02/29 2000/03/01 2000/03/02 2000/03/03 2000/03/04 2000/03/05 2000/03/06 2000/03/07 2000/03/08 2000/03/09 2000/03/10 2000/03/11 2000/03/12 2000/03/13 2000/03/14 2000/03/15 2000/03/16 2000/03/17 2000/03/18 2000/03/19 2000/03/20 2000/03/21 2000/03/22 2000/03/23 2000/03/24 2000/03/25 2000/03/26 2000/03/27 2000/03/28 2000/03/29 2000/03/30 2000/03/31 2000/04/01 2000/04/02 2000/04/03 2000/04/04 2000/04/05 2000/04/06 2000/04/07 2000/04/08 2000/04/09 2000/04/10 2000/04/11 2000/04/12 2000/04/13 2000/04/14 2000/04/15 2000/04/16 2000/04/17 2000/04/18 2000/04/19 2000/04/20 2000/04/21 2000/04/22 2000/04/23 2000/04/24 2000/04/25 2000/04/26 2000/04/27 2000/04/28 2000/04/29 2000/04/30 2000/05/01 2000/05/02 2000/05/03 2000/05/04 2000/05/05 2000/05/06 2000/05/07 2000/05/08 2000/05/09 2000/05/10 2000/05/11 2000/05/12 2000/05/13 2000/05/14 2000/05/15 2000/05/16 2000/05/17 2000/05/18 2000/05/19 2000/05/20 2000/05/21 2000/05/22 2000/05/23 2000/05/24 2000/05/25 2000/05/26 2000/05/27 2000/05/28 2000/05/29 2000/05/30 2000/05/31 2000/06/01 2000/06/02 2000/06/03 2000/06/04 2000/06/05 2000/06/06 2000/06/07 2000/06/08 2000/06/09 2000/06/10 2000/06/11 2000/06/12 2000/06/13 2000/06/14 2000/06/15 2000/06/16 2000/06/17 2000/06/18 2000/06/19 2000/06/20 2000/06/21 2000/06/22 2000/06/23 2000/06/24 2000/06/25 2000/06/26 2000/06/27 2000/06/28 2000/06/29 2000/06/30 2000/07/01 2000/07/02 2000/07/03 2000/07/04 2000/07/05 2000/07/06 2000/07/07 2000/07/08 2000/07/09 2000/07/10 2000/07/11 2000/07/12 2000/07/13 2000/07/14 2000/07/15 2000/07/16 2000/07/17 2000/07/18 2000/07/19 2000/07/20 2000/07/21 2000/07/22 2000/07/23 2000/07/24 2000/07/25 2000/07/26 2000/07/27 2000/07/28 2000/07/29 2000/07/30 2000/07/31 2000/08/01 2000/08/02 2000/08/03 2000/08/04 2000/08/05 2000/08/06 2000/08/07 2000/08/08 2000/08/09 2000/08/10 2000/08/11 2000/08/12 2000/08/13 2000/08/14 2000/08/15 2000/08/16 2000/08/17 2000/08/18 2000/08/19 2000/08/20 2000/08/21 2000/08/22 2000/08/23 2000/08/24 2000/08/25 2000/08/26 2000/08/27 2000/08/28 2000/08/29 2000/08/30 2000/08/31 2000/09/01 2000/09/02 2000/09/03 2000/09/04 2000/09/05 2000/09/06 2000/09/07 2000/09/08 2000/09/09 2000/09/10 2000/09/11 2000/09/12 2000/09/13 2000/09/14 2000/09/15 2000/09/16 2000/09/17 2000/09/18 2000/09/19 2000/09/20 2000/09/21 2000/09/22 2000/09/23 2000/09/24 2000/09/25 2000/09/26 2000/09/27 2000/09/28 2000/09/29 2000/09/30 2000/10/01 2000/10/02 2000/10/03 2000/10/04 2000/10/05 2000/10/06 2000/10/07 2000/10/08 2000/10/09 2000/10/10 2000/10/11 2000/10/12 2000/10/13 2000/10/14 2000/10/15 2000/10/16 2000/10/17 2000/10/18 2000/10/19 2000/10/20 2000/10/21 2000/10/22 2000/10/23 2000/10/24 2000/10/25 2000/10/26 2000/10/27 2000/10/28 2000/10/29 2000/10/30 2000/10/31 2000/11/01 2000/11/02 2000/11/03 2000/11/04 2000/11/05 2000/11/06 2000/11/07 2000/11/08 2000/11/09 2000/11/10 2000/11/11 2000/11/12 2000/11/13 2000/11/14 2000/11/15 2000/11/16 2000/11/17 2000/11/18 2000/11/19 2000/11/20 2000/11/21 2000/11/22 2000/11/23 2000/11/24 2000/11/25 2000/11/26 2000/11/27 2000/11/28 2000/11/29 2000/11/30 2000/12/01 2000/12/02 2000/12/03 2000/12/04 2000/12/05 2000/12/06 2000/12/07 2000/12/08 2000/12/09 2000/12/10 2000/12/11 2000/12/12 2000/12/13 2000/12/14 2000/12/15 2000/12/16 2000/12/17 2000/12/18 2000/12/19 2000/12/20 2000/12/21 2000/12/22 2000/12/23 2000/12/24 2000/12/25 2000/12/26 2000/12/27 2000/12/28 2000/12/29 2000/12/30 2000/12/31

FIG. 7

88 : ESTIMATION FILE

USER IDENTIFIER	APPROXIMATE FORMULA	DATA ESTIMATION FOR NEXT BILLING DATA	DATE THAT CONTRACTED STORAGE BECOMES FULL	DATE THAT AMOUNT GAINED THE NOTIFICATION AMOUNT
A	$D=aT+b$	300GB	2001/02/15	2001/02/10
B	$D=cT+d$	500GB	2001/12/07	2001/12/07
C	$D=eT+g$	300GB	2001/03/20	2001/02/15
D	$D=hT+i$	200GB	2001/07/12	2001/05/03
:	:	:	:	:

FIG. 7

FIG. 8

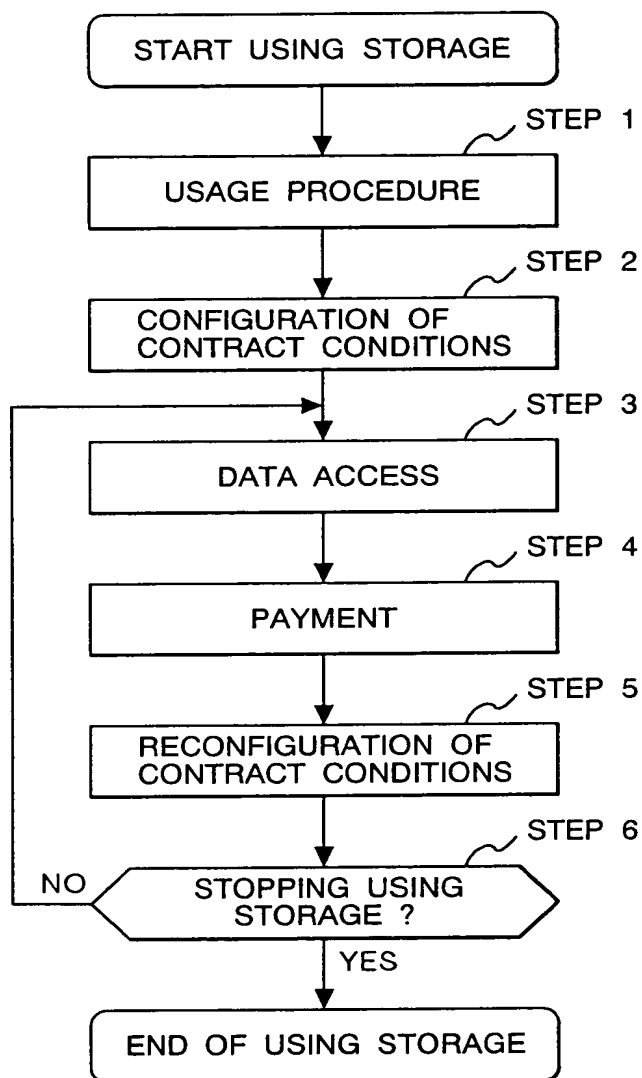
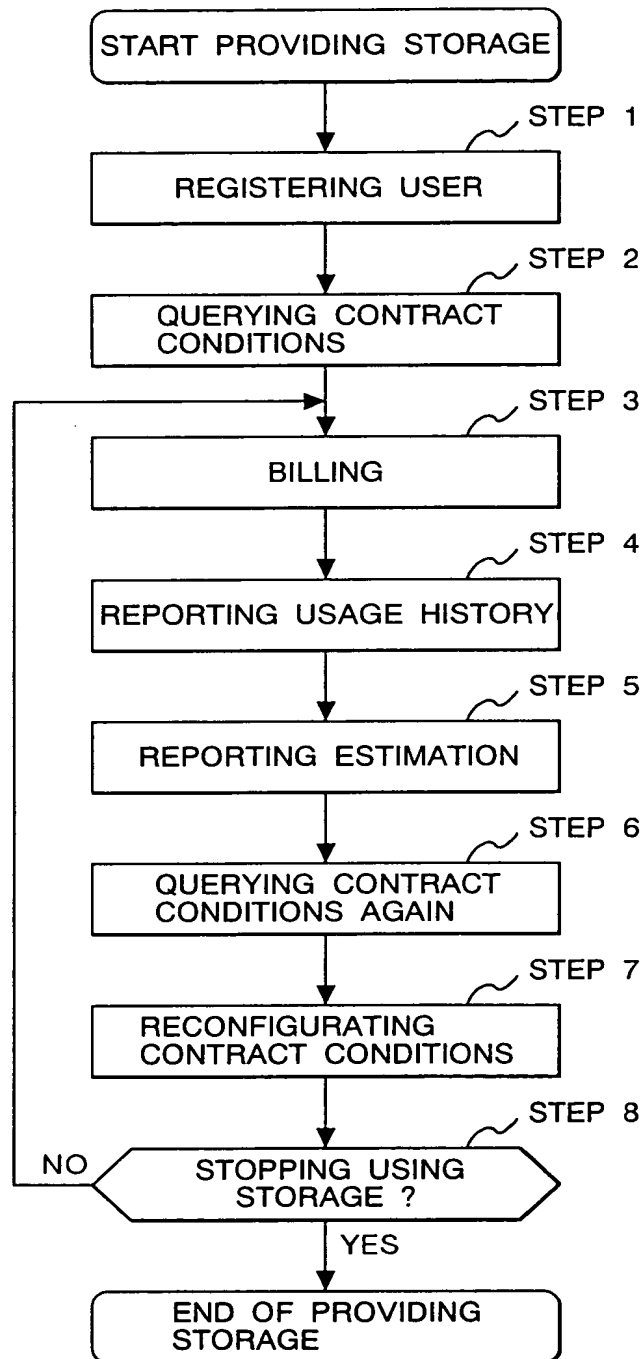
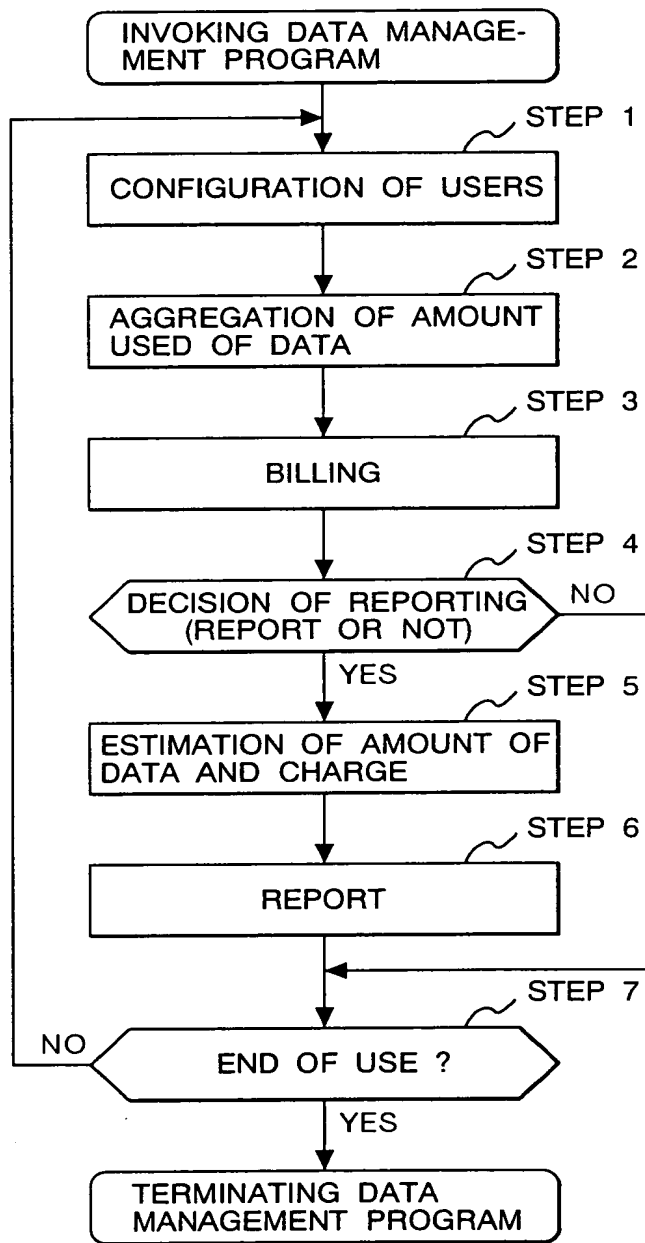


FIG. 9



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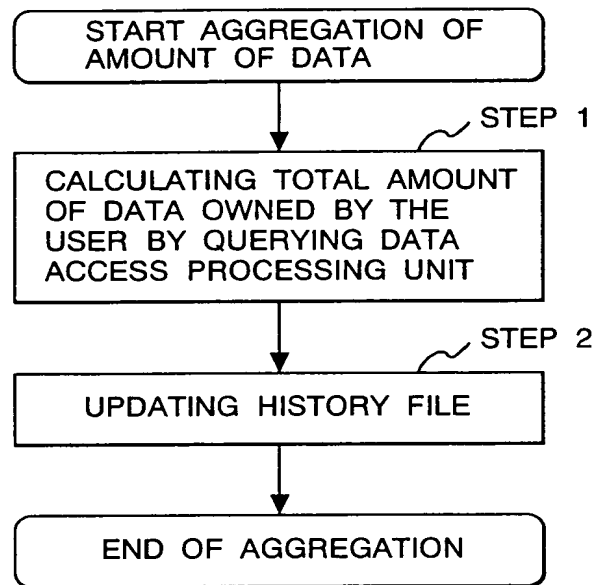
FIG. 10



10040030-000001

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FIG. 12



090419030-080204
P.02000-02000

FIG. 13

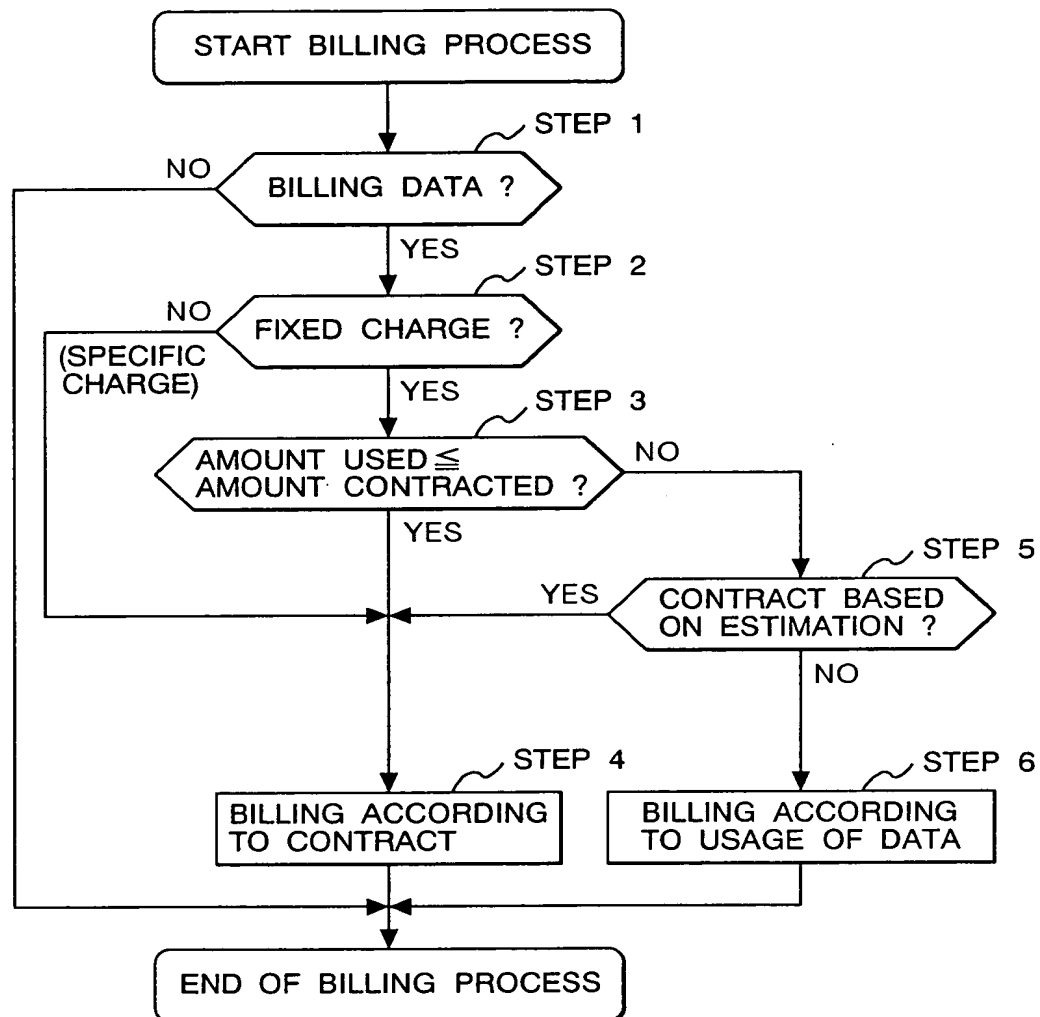


FIG. 13

FIG. 14

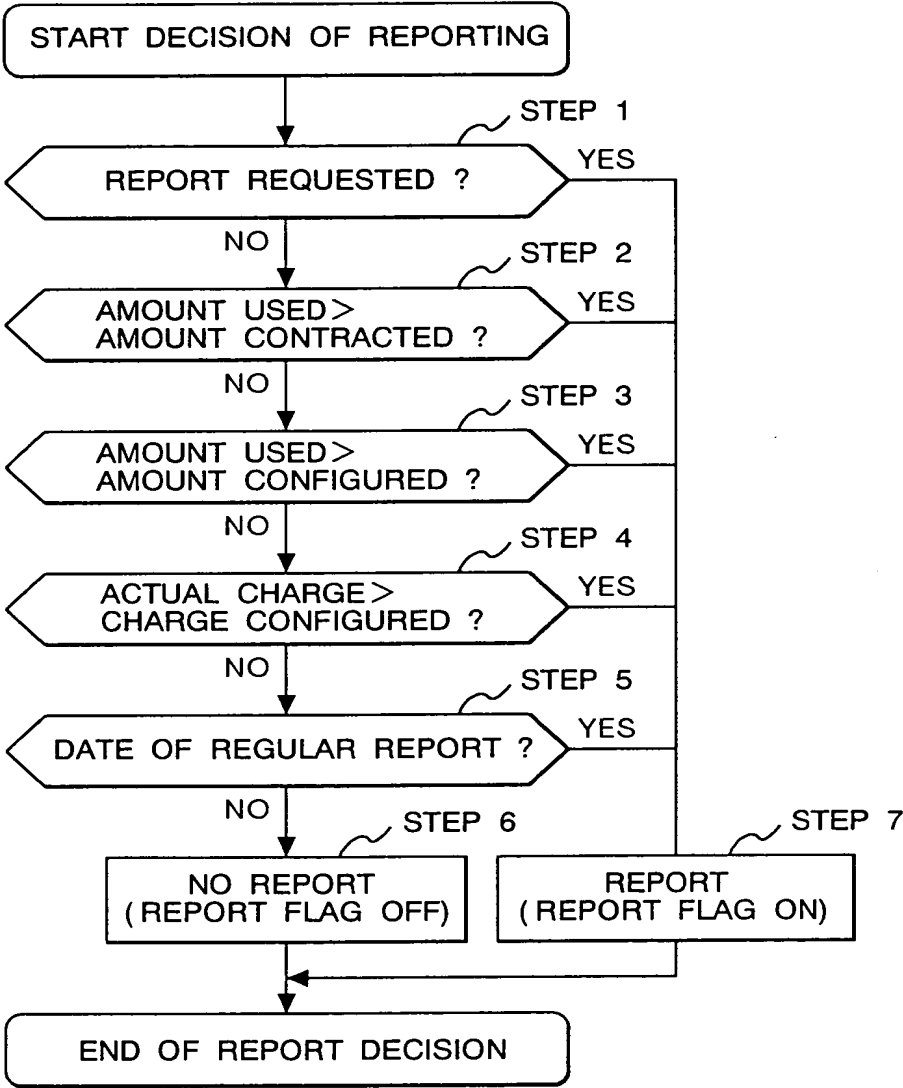


FIG. 14

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FIG. 15

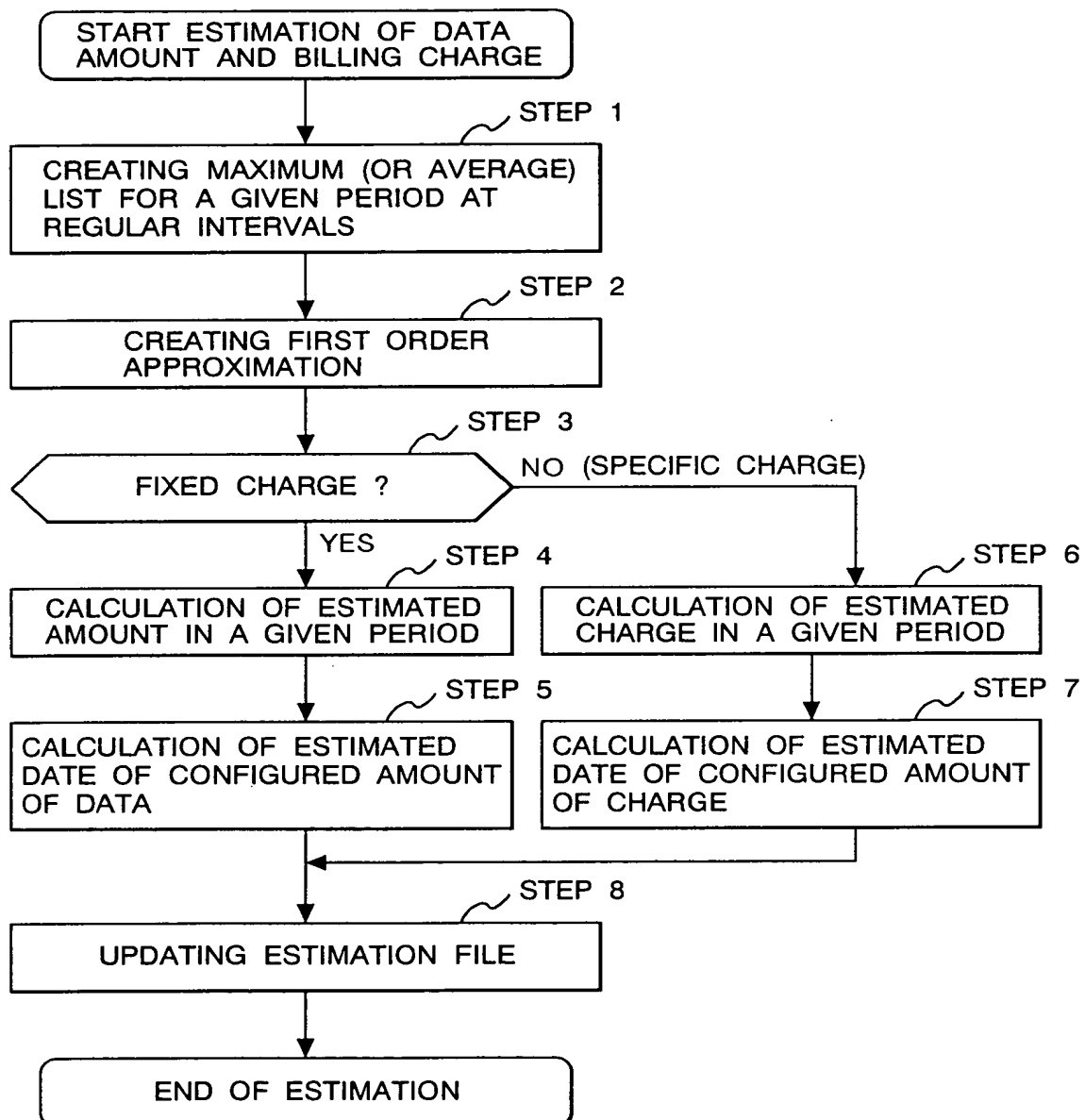


FIG. 15

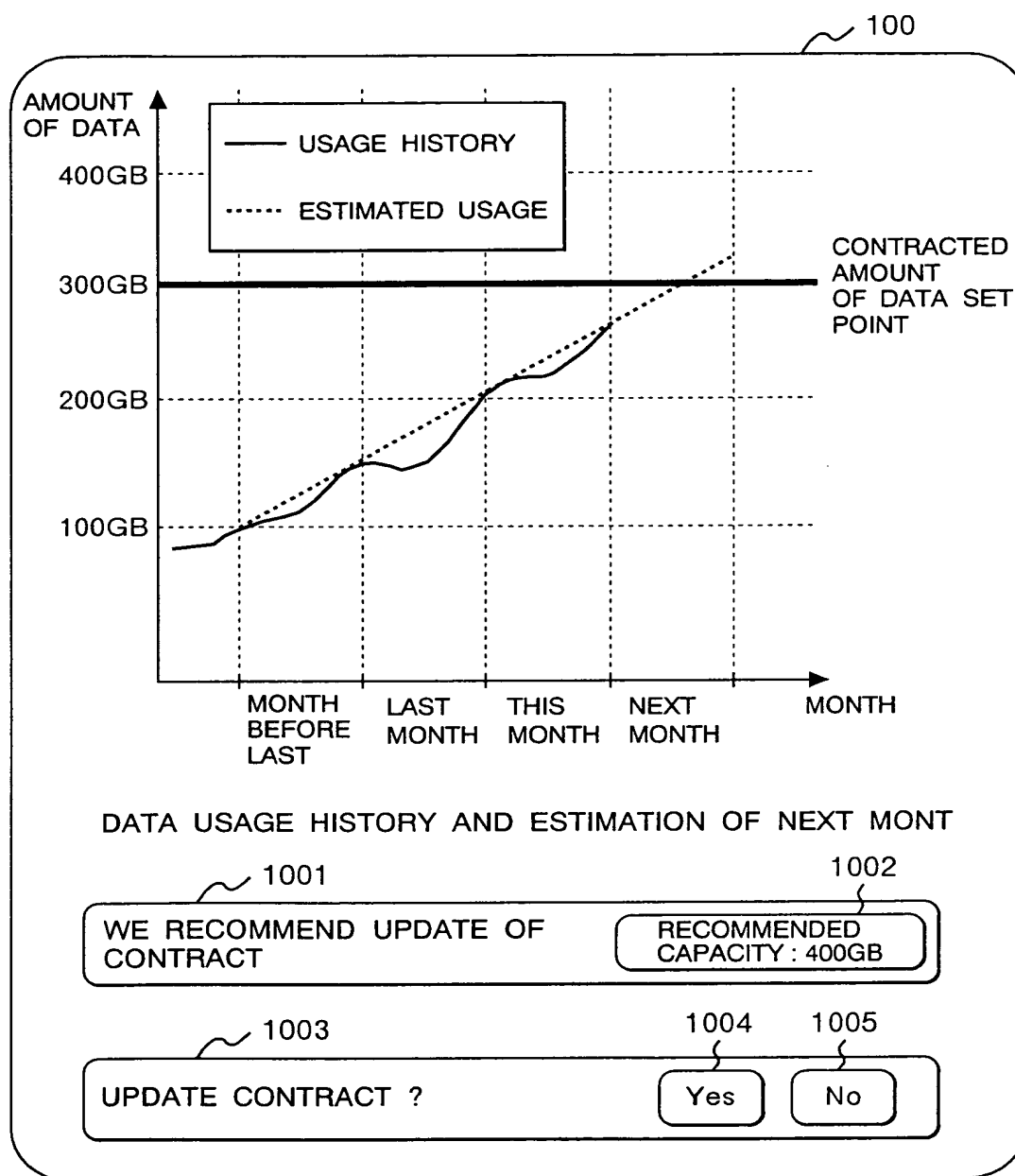
```

graph TD
    260[MENU 1 MENU 2 MENU 3 MENU 4] --> 2601[USER REGISTRATION]
    2601 --> 2602[USER NAME A]
    2602 --> 2603[BILLING METHOD]
    2603 --> 2604[FIXED]
    2603 --> 2605[SPECIFIC]
    2604 --> 2606[AMOUNT CONTRACTED]
    2605 --> 2606
    2606 --> 2607[300GB]
    2606 --> 2608[30000 YEN]
    2607 --> 2609[AMOUNT TO BE REPORTED]
    2608 --> 2609
    2609 --> 2610[200GB]
    2609 --> 2611[25000 YEN]
    2610 --> 2612[OPTION FOR EXCESS AMOUNT]
    2611 --> 2612
    2612 --> 2613[AVAIL-ABLE]
    2612 --> 2614[UNAVAIL-ABLE]
    2613 --> 2615[TERMINATE CONFIGURATION ?]
    2614 --> 2615
    2615 --> 2616[Yes]
    2615 --> 2617[No]
  
```

Figure 1 is a flowchart illustrating a configuration process. The process begins with a menu bar (260) containing four options: MENU 1, MENU 2, MENU 3, and MENU 4. The process then moves to a USER REGISTRATION step (2601), which includes a form (2602) for USER NAME (A). This is followed by a BILLING METHOD step (2603) with two options: FIXED (2604) and SPECIFIC (2605). The process then moves to an AMOUNT CONTRACTED step (2606) with two options: 300GB (2607) and 30000 YEN (2608). This is followed by an AMOUNT TO BE REPORTED step (2609) with two options: 200GB (2610) and 25000 YEN (2611). The process then moves to an OPTION FOR EXCESS AMOUNT step (2612) with two options: AVAIL-ABLE (2613) and UNAVAIL-ABLE (2614). Finally, the process ends with a TERMINATE CONFIGURATION ? step (2615) with two options: Yes (2616) and No (2617).

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FIG. 17



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FIG. 18

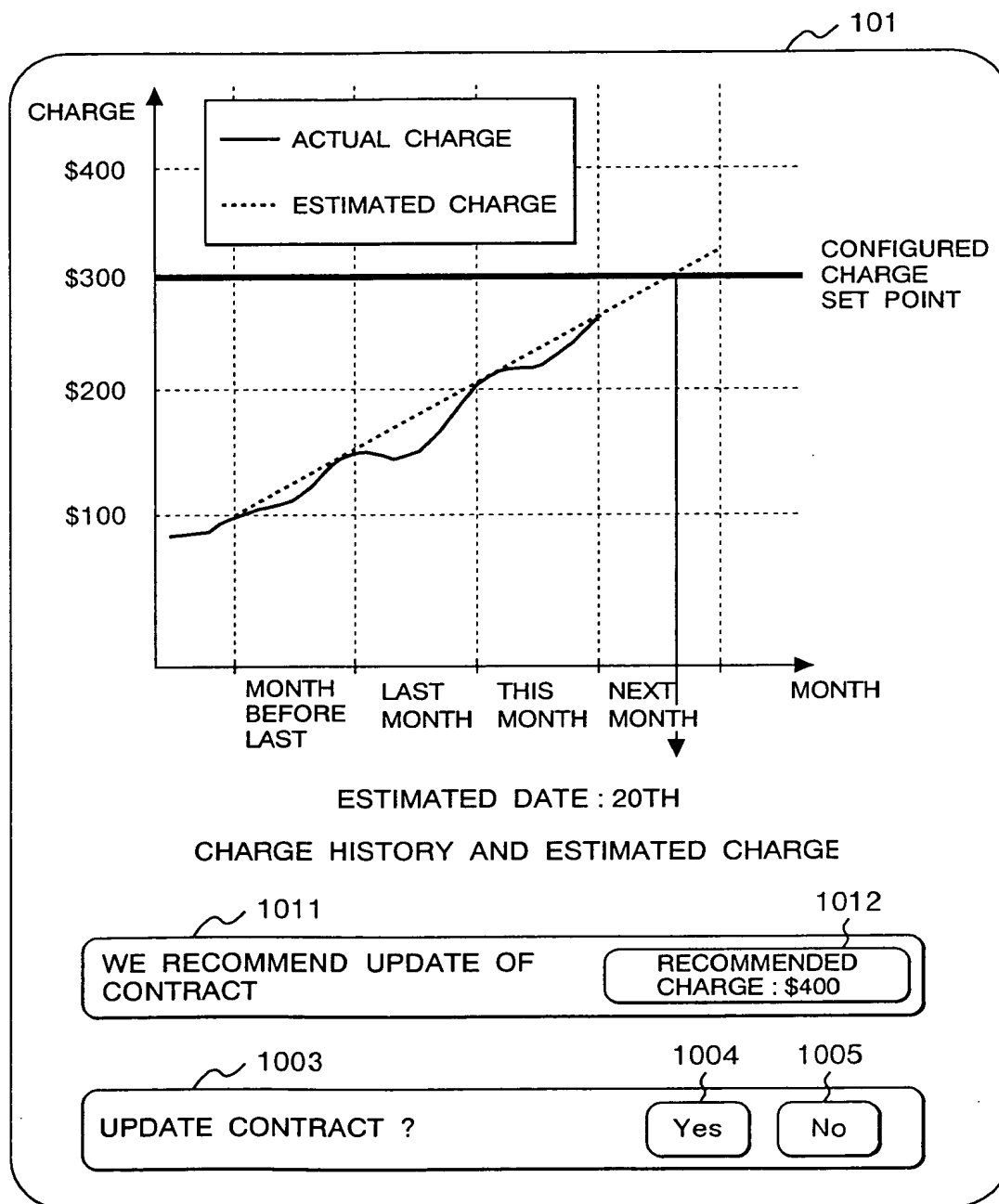


FIG. 19

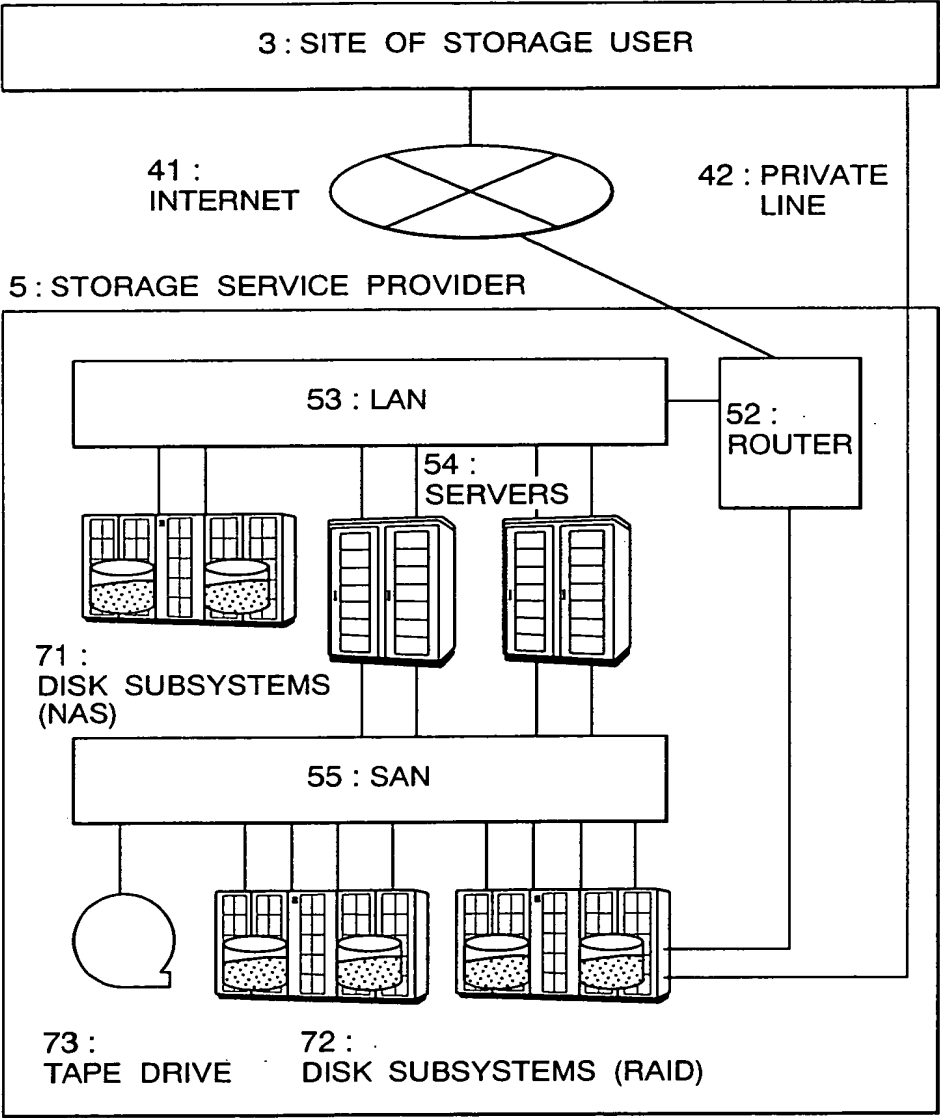


FIG. 19

FIG. 20

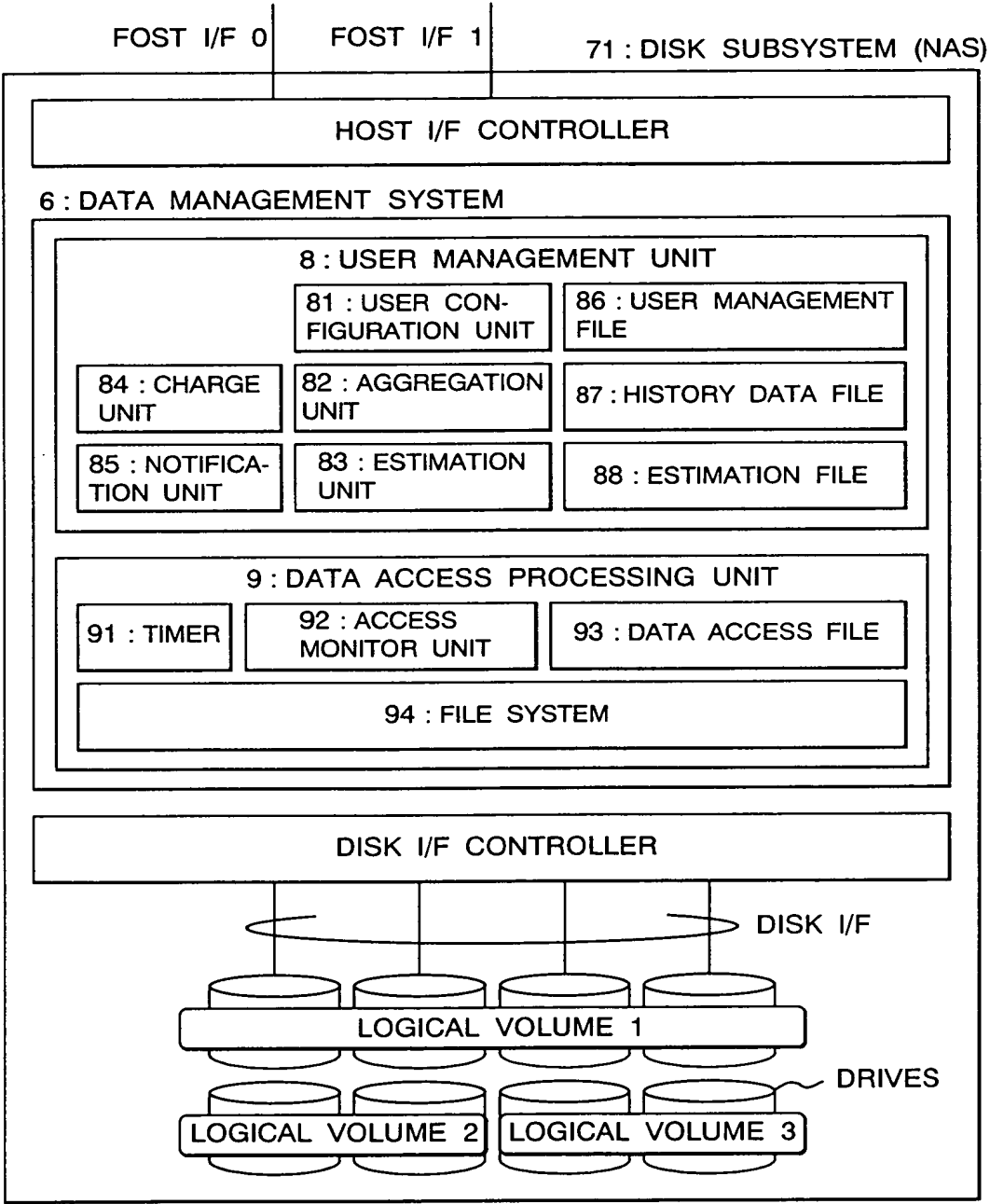
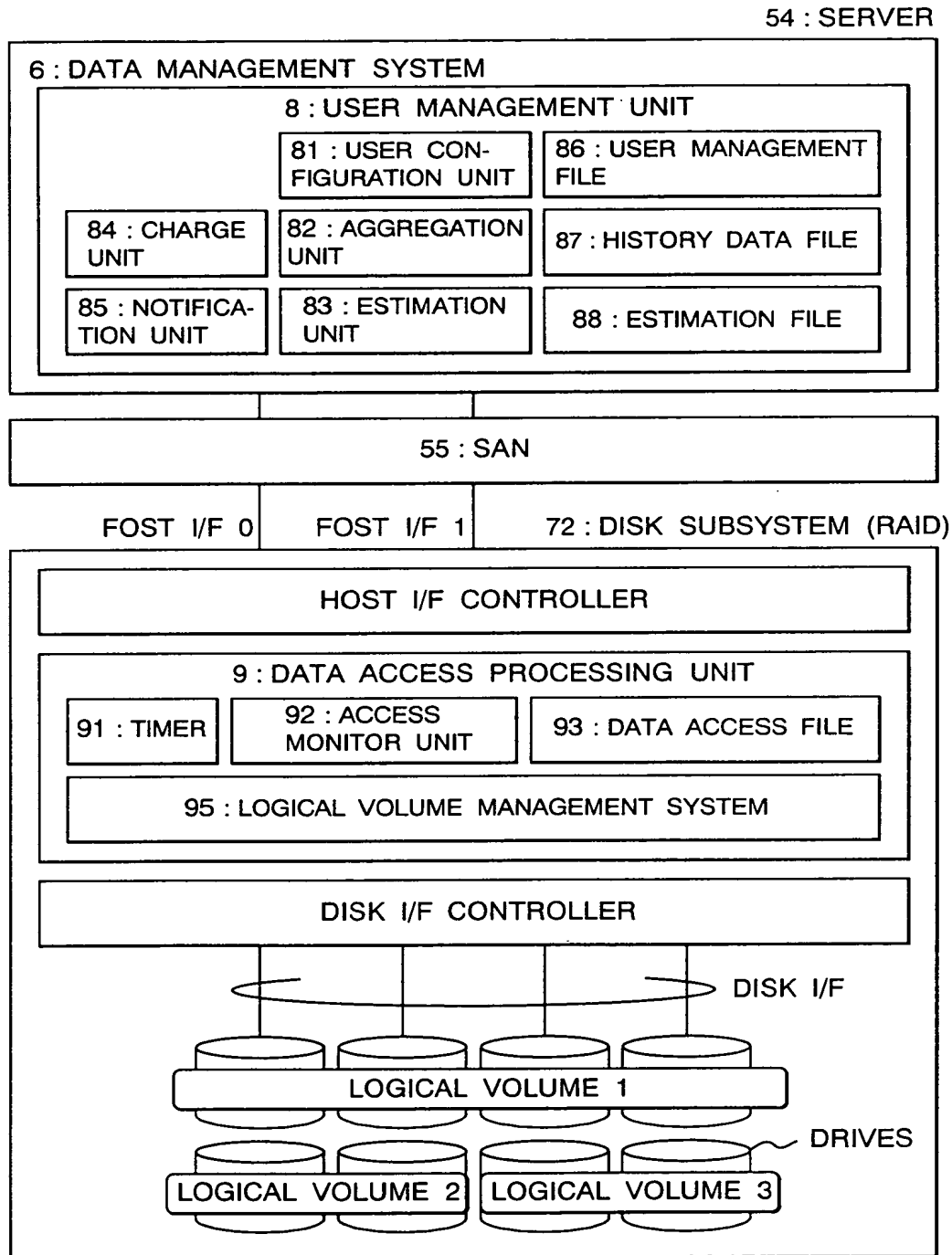


FIG. 20

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FIG. 21



FOOTPRINT: 0200T600

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FIG. 22

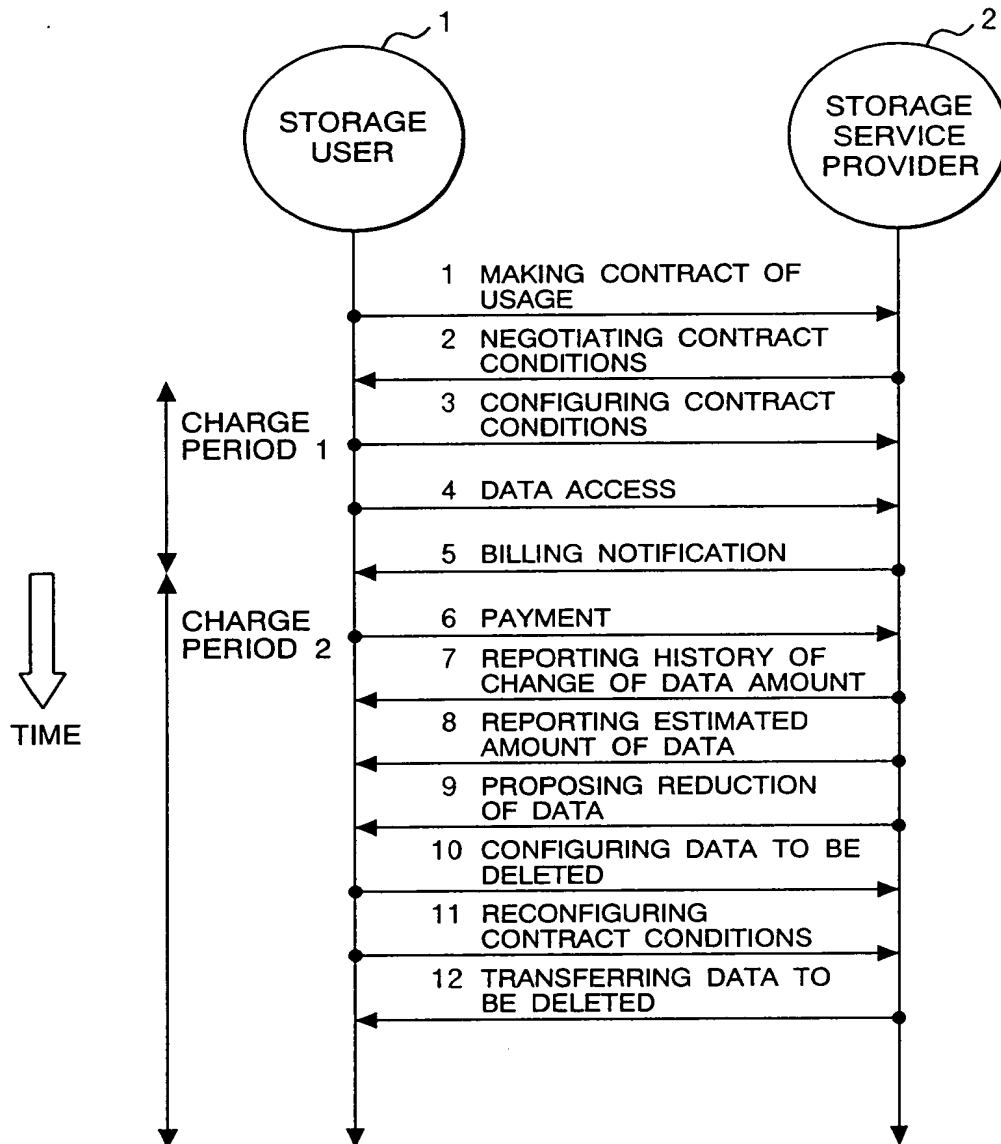


FIG. 23

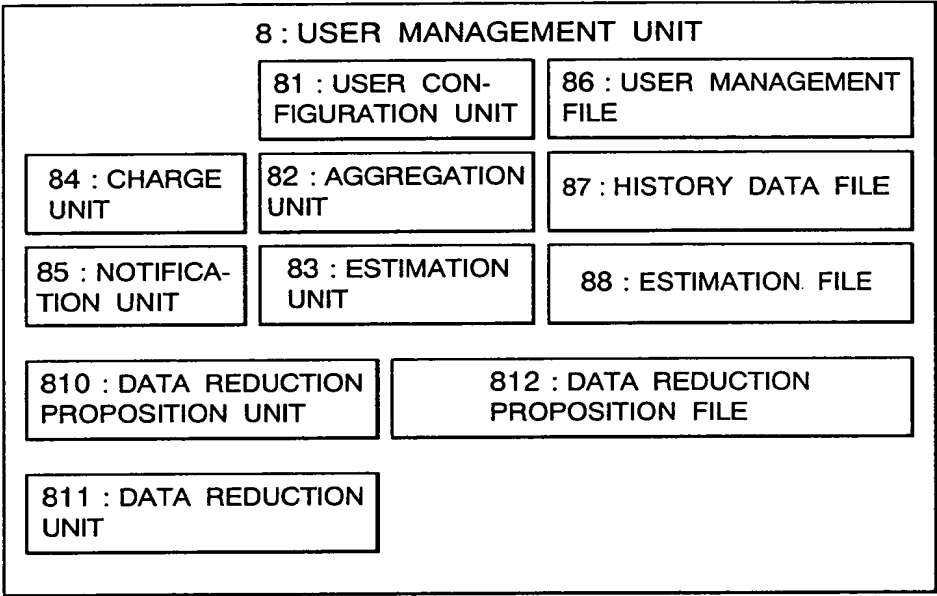


FIG. 23

[illegible][illegible]

FIG. 25

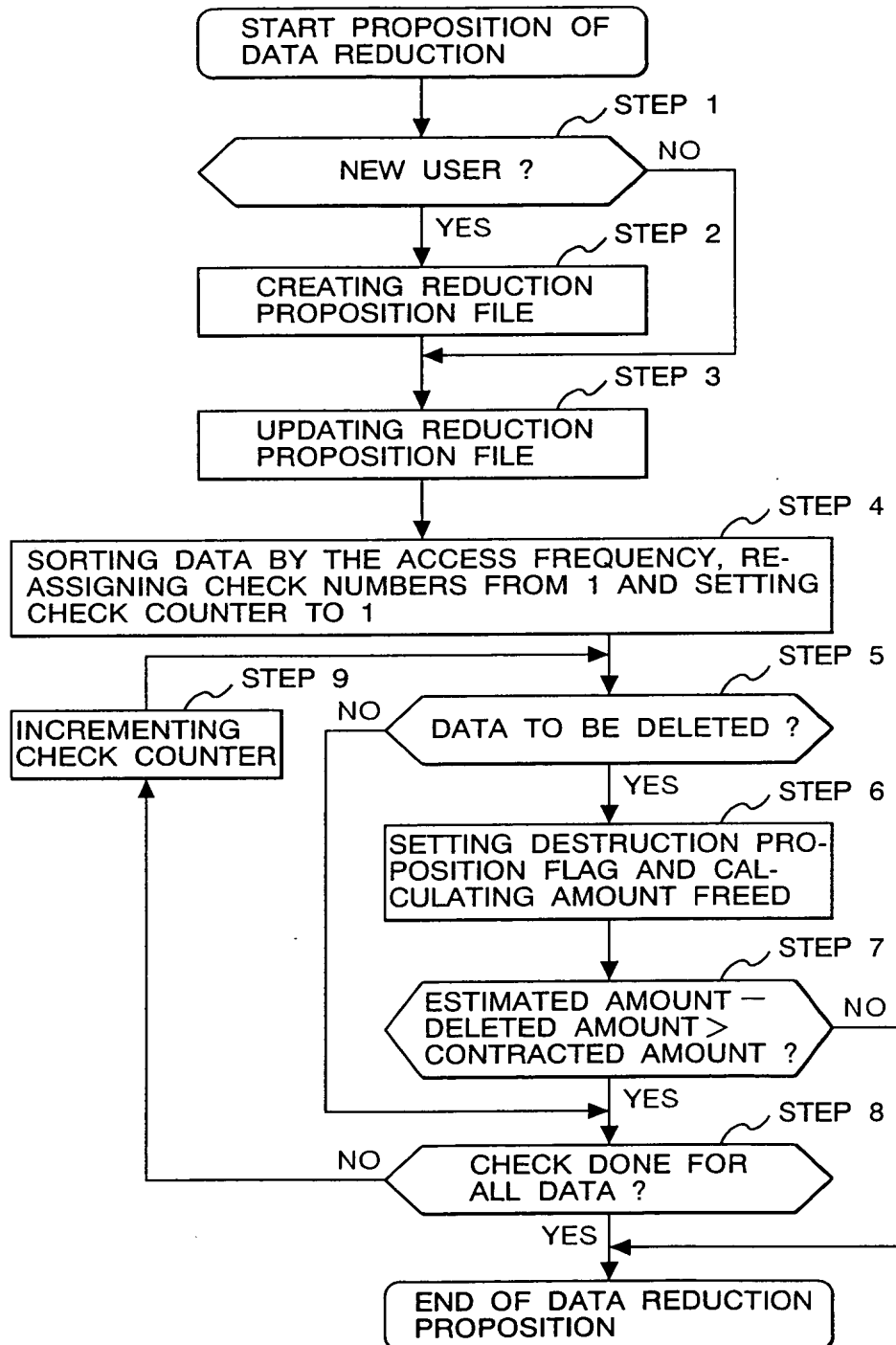


FIG. 25

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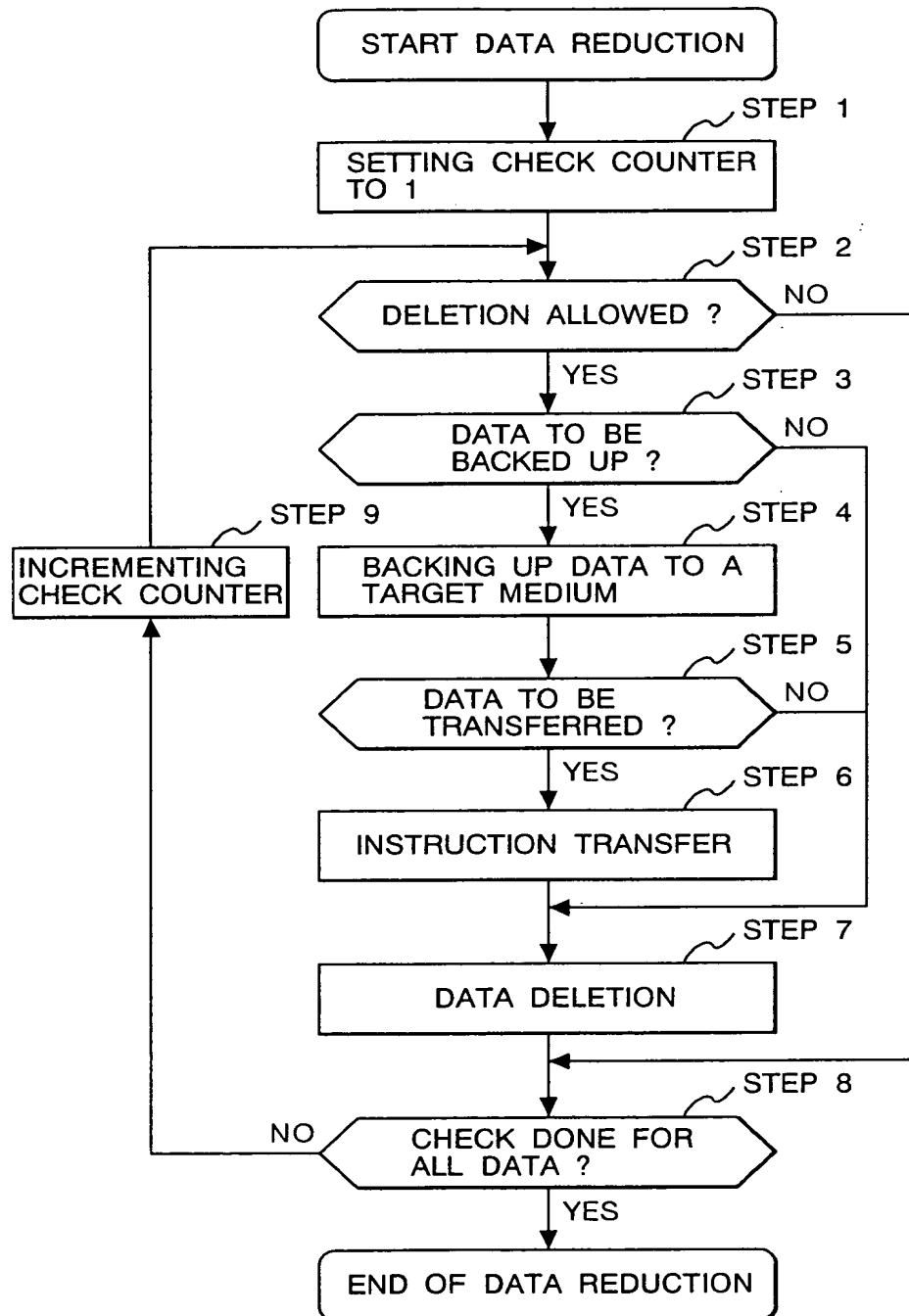

FIG. 26

FIG. 26

FIG. 27

340 : DATA REDUCTION PROPOSITION DISPLAY

















 CLICK BUTTON TO SELECT ITEM TO BE DELETED

SELECT A BACKUP MEDIUM (TAPE OR CD-R)

341 : PROPOSITION LIST

CHECK NUMBER	STORAGE AREA	NAME OF DATA	NON-DELETION OBJECT	DELETION PROPOSED	SUM AFTER DELETION
1	1	1	NON-DELETION	—	0GB
2	1	2	DELETION	PROPOSITION	100GB
3	1	3	DELETION	PROPOSITION	200GB
4	2	4	DELETION	—	200GB
⋮	⋮	⋮	⋮	⋮	⋮

342 : DELETION CONFIGURATION

SET DELETION	NON-DELETION OBJECT	BACK-UP	BACK-UP MEDIUM	TRANSFER DATA TO BE DELETED
				
				
			TAPE	
				
⋮	⋮	⋮	⋮	⋮

343

ACTUAL AMOUNT OF DATA USED =600GB

ESTIMATED AMOUNT IN A MONTH =750GB

PRESENTLY CONTRACTED AMOUNT =700GB

PROPOSED AMOUNT OF DATA =800GB

344

SUM OF DATA TO BE DELETED =200GB

ENTER DESIRED AMOUNT OF DATA

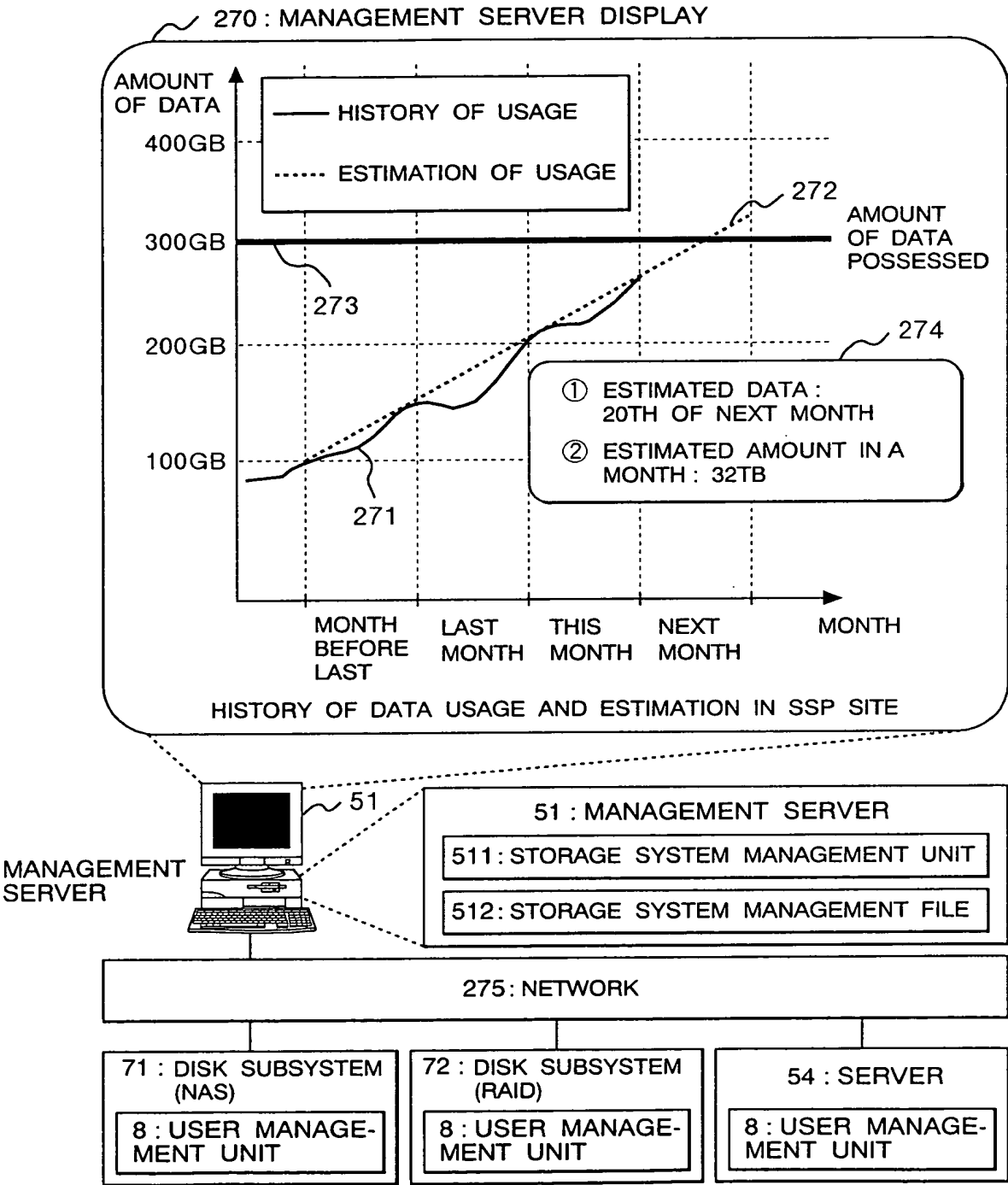
800GB

345

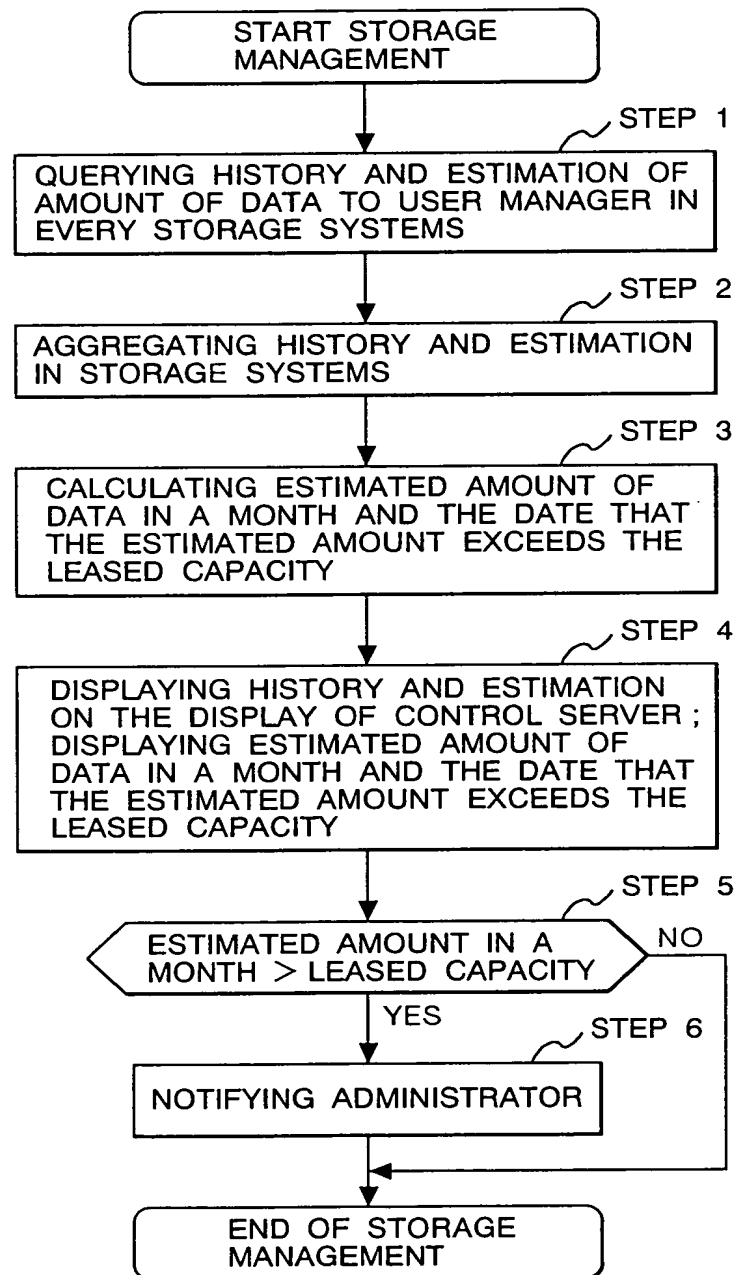
OK

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FIG. 28



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FIG. 29

F020200-02661600

FIG. 30

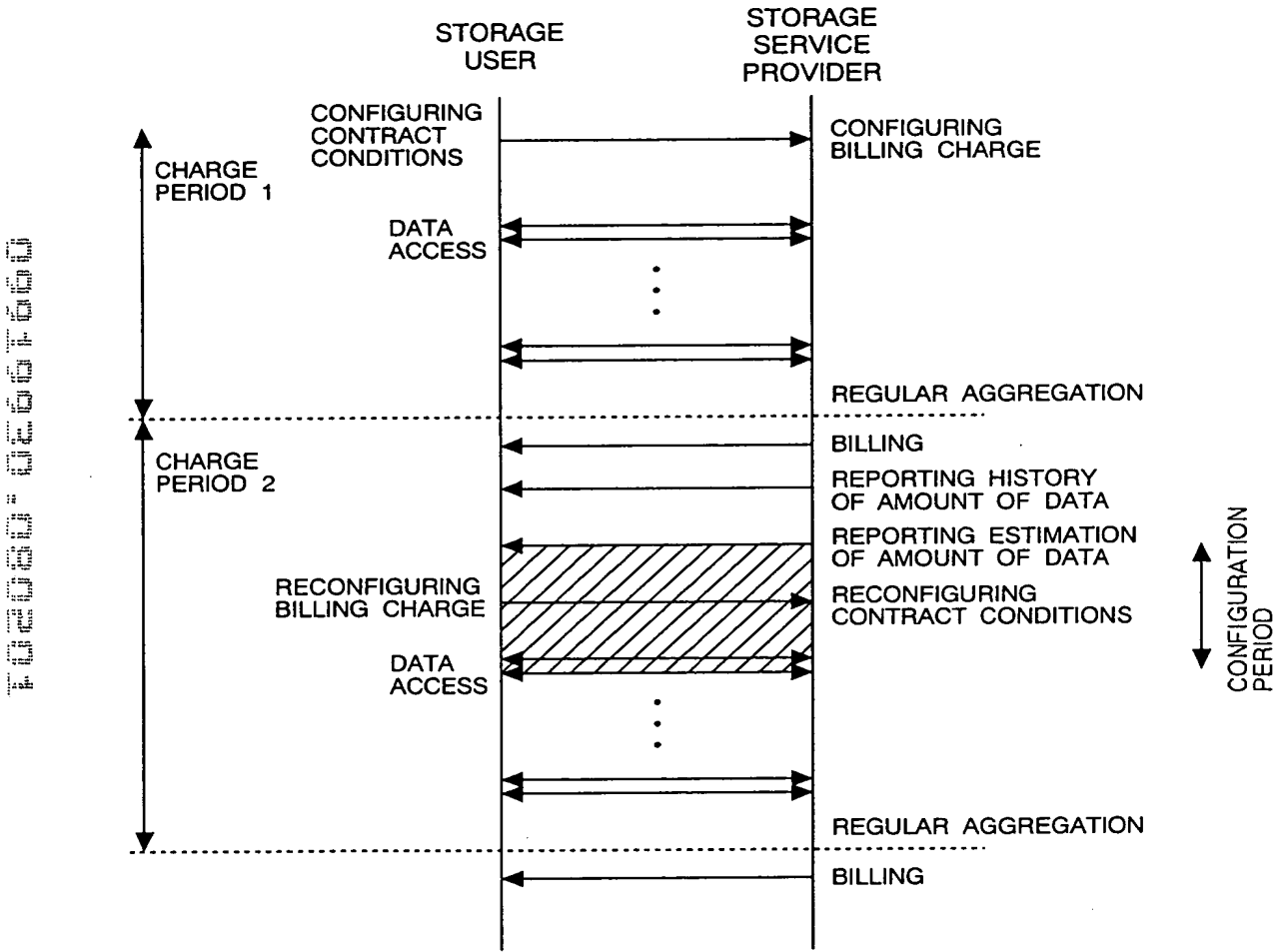


FIG. 31

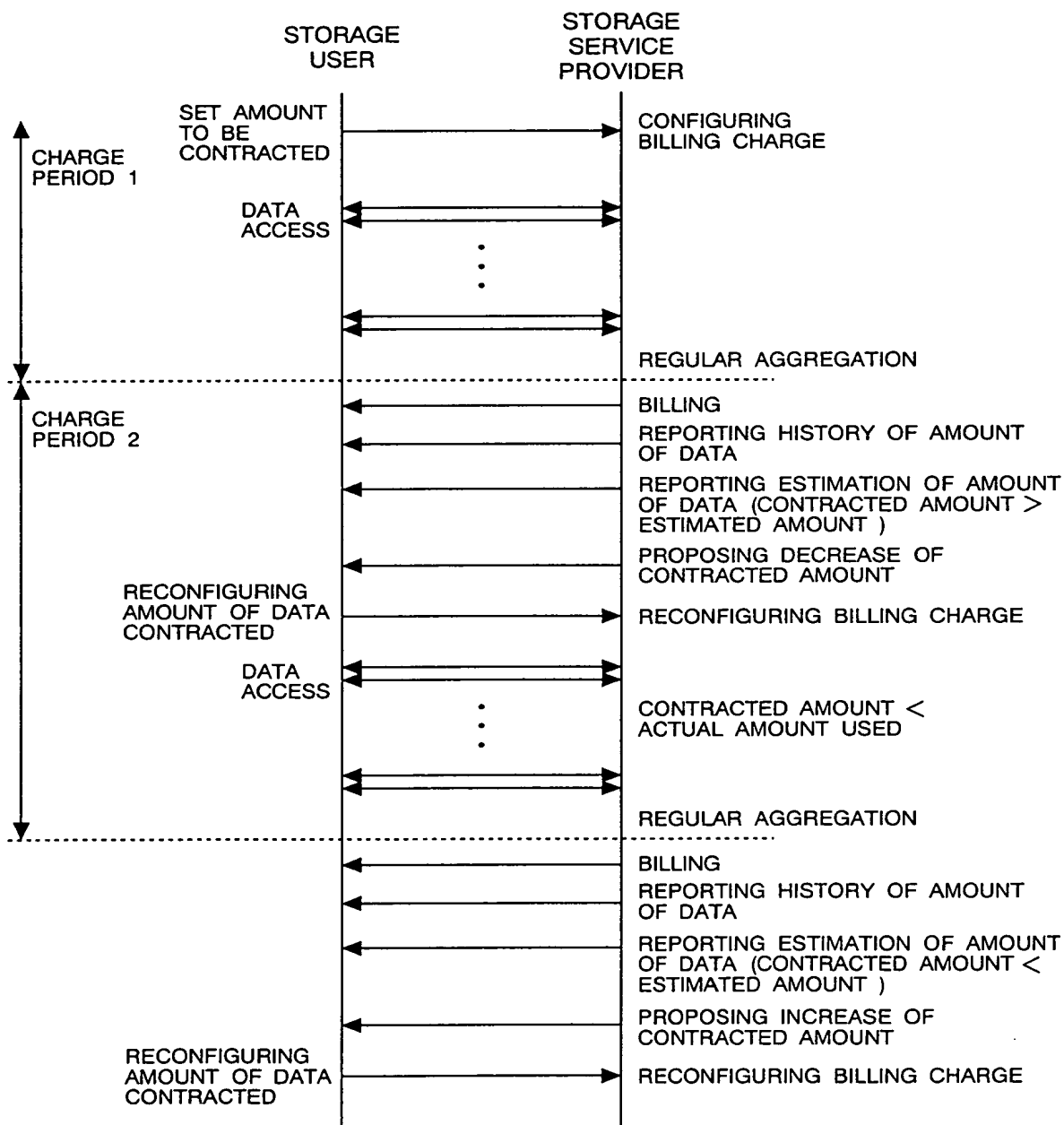


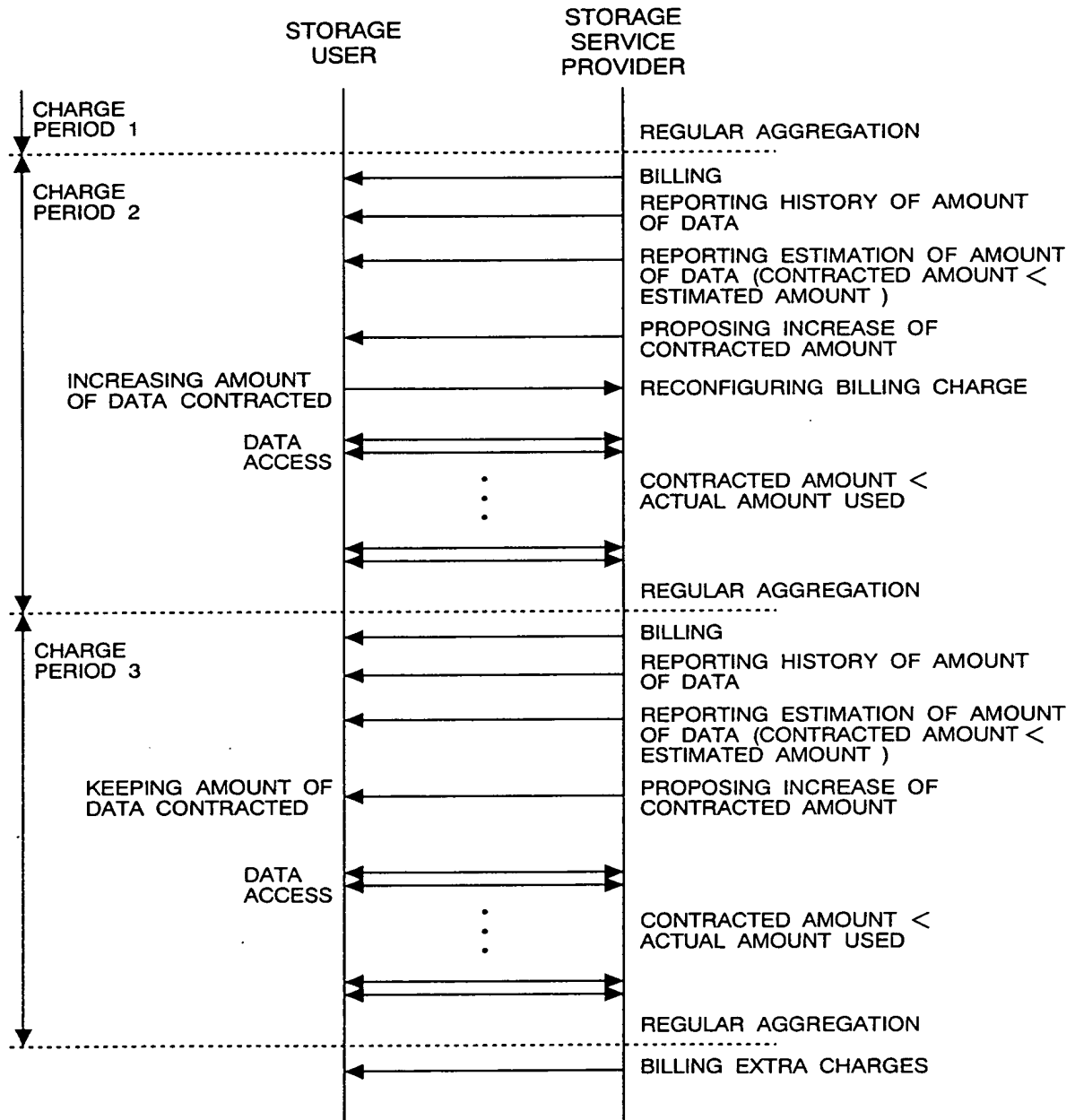
FIG. 32

FIG. 33

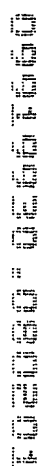


FIG. 34

PRIOR ART

